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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/680,109	10/08/2003	Shinji Ohta	243659US6	4453
	7590 12/19/200 AK MCCLELLAND	EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			RIVERO, MINERVA	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2627	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	12/19/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary Examiner		Application No.	Applicant(s)
Minerva Rivero 2627		10/680,109	OHTA ET AL.
— The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions form rany be available under the provincies of 37 CFR 17-801, in no event, however, may a reply be timely field. after SIX (6) MONTH'S from the mailing date of this communication of 37 CFR 17-801, in no event, however, may a reply be timely field. after SIX (6) MONTH'S from the mailing date of this communication will apply and will expire SIX (6) MONTH'S from the mailing date of this communication. Fallies to provide the pit of Office later than these months after the mailing date of this communication, even if immely filled, may reduce any searce placetime and adjustment. See 37 CFR 17-801, Ary raply received by the Office later than these months after the mailing date of this communication, even if immely filled, may reduce any searce placetime and adjustment. See 37 CFR 17-801, Ary raply received by the Office later than the months after the mailing date of this communication, even if immely filled, may reduce any searce placetime and adjustment. See 37 CFR 17-801, Ary raply received by the Office later than the months after the mailing date of this communication, even if immely filled, may reduce any searce placetime. 1) ■ Responsive to communication(s) filled on 13 September 2006. 2(a) ■ This action is FINAL. 2(b) ■ This action is non-final. 3) ■ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ■ Claim(s) 1-11 is/are pending in the application. 4) ■ Claim(s) 1-11 is/are pending in the application. 4) ■ Claim(s) 1-11 is/are pending in the application. 4) ■ Claim(s) 1-11 is/are pending in the application. 5) ■ Claim(s) 1-11 is/are allow	Office Action Summary	Examiner	Art Unit
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* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Output	·	-	•
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		4) Lanterview Su	mmary (PTO-413) /Mail Date
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application			
Paper No(s)/Mail Date 6) Other:			* *

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DETAILED ACTION

1. In the Remarks filed 9/13/06 Applicants submitted arguments for allowability of pending claims.

Response to Arguments

2. Applicant's arguments filed 9/13/06 have been fully considered but they are not persuasive.

Regarding claims 1-11, Applicants argue that WOmax and Lpmin are merely minimum and maximum values. However, Kato states that Lpmin is the "minimum value of the variation width of the LPP section" (see Col. 8, Lines 27-36), not just a minimum value, per se. As such, Lpmin is an amplitude variation signal as claimed. Therefore the claims stay rejected.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1-11

- 4. Claims ** are rejected under 35 U.S.C. 102(e) as being anticipated by Kato *et al.* (US Patent 6,928,041, hereinafter Kato.
- 5. Regarding claims 1, 5 and 9, Kato discloses a method and a disk drive comprising:

an optical head for emitting a laser beam so as to illuminate a disk-shaped storage medium and detecting light reflected from the disk-shaped storage medium thereby writing or reading data on or from the disk-shaped storage medium, grooves serving as recording tracks being formed in a wobbling fashion on the disk-shaped storage medium, pre-pits being formed on lands between adjacent grooves (Col. 4, Lines 15-24);

a push-pull signal generator for generating a push-pull signal from reflected-light information detected by the optical head (Col. 5, Lines 40-46);

an amplitude variation signal generator for generating and outputting a fundamental amplitude variation signal indicating the fundamental amplitude variation of the push-pull signal (binarized push-pull signal, Col. 5, Lines 45-46);

an offset signal generator for generating an offset signal (Col 8, Lines 41-52; threshold signal, Col. 5, Line 67 – Col. 6, Line 6);

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a reference signal generator for generating a reference signal by adding the offset signal generated by the offset signal generator to the fundamental amplitude variation signal generated by the amplitude variation signal generator (Col. 6, Lines 16-18; Col 8, Lines 41-52);

and a pre-pit detector for comparing the push-pull signal with a reference signal and outputting a comparison result as a pre-pit detection signal (Col. 5, Lines 12-16; pre-pit detection signal, Col. 9, Lines 53-56).

- 6. Regarding claims 2 and 6, Kato discloses the disk-shaped storage medium represents, using the pre-pits, address information indicating an address on the disk; and the disk drive further comprising an address decoder for acquiring address information represented by the pre-pits, from the output of the pre-pit detector (*position*, Col. 5, Lines 17-23).
- Regarding claims 3, 7 and 10, discloses the fundamental amplitude variation signal is a signal reflecting at least the amplitude variation of the push-pull signal due to wobbling of grooves and due to noise (Col. 8, Lines 27-36).
- 8. Regarding claims 4, 8 and 11, discloses the amplitude variation signal generator includes

a charging circuit for charging a capacitor in response to an increase in amplitude of the input push-pull signal, in a peak holding manner with a predetermined time

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constant (peak-hold and sampling circuit, Col. 6, Lines 16-29; delay circuit delays the binary signal for a certain time, Col. 6, Lines 16-29; holding detected value during a certain time period, Col. 6, Lines 16-29); and

a discharging circuit for discharging the capacitor such that the charged voltage of the capacitor falls down with a predetermined time constant (*holding detected value during a certain time period*, Col. 6, Lines 16-29);

whereby a signal corresponding to the charged level of the capacitor is output as the fundamental amplitude variation signal (binary signal output, Col. 6, Lines 16-29).

Conclusion

9 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minerva Rivero whose telephone number is (571) 272-7626. The examiner can normally be reached on Monday-Friday 9:00 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MR 12/14/06

SUPERVISORY PATENT EXAMINER